## CIS 122-Algorithms and Programming Quiz \#3 <br> August 5, 2004 <br> Name:

The following program prompts the user for 50 ints and reads them into a vector. The largest element is then returned by the call to $\max ()$. Both main and getNums have been completed for you. Your job is to write the max function (remember also to add the forward declaration!).

```
#include <iostream>
#include <vector>
using namespace std;
void getNums(vector<int>& nums);
int main() {
    vector<int> nums(0);
    getNums(nums);
    int biggest = max(nums);
    cout << biggest << endl;
    return 0;
}
```

    // FORWARD DECLARATION FOR max GOES HERE
    // DEFINITION of max GOES HERE

```
void getNums(vector<int>& nums) {
    /*
        SUMMARY: prompts user repeatedly for int values, until the user indicates
                that she is done. Reads each value into nums
            SIDE-EFFECTS: The cells in nums are modified to hold the user-supplied
                int values. The size of nums is set to be exactly equal to the number
                of ints entered..
    */
    char done = 'n';
    int i = 0;
    while (done == 'n') {
        cout << "--> ";
        if (i >= nums.size())
            nums.resize(i + 10);
        cin >> nums[i];
        i++;
        cout << "Done? (y/n) ";
        cin >> done;
        cin.ignore(80,'\n');
    }
    nums.resize(i);
}
```

